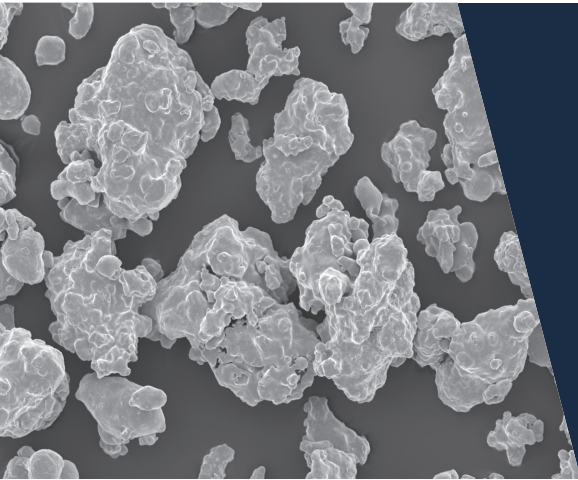


# ANCORSTEEL 150HP



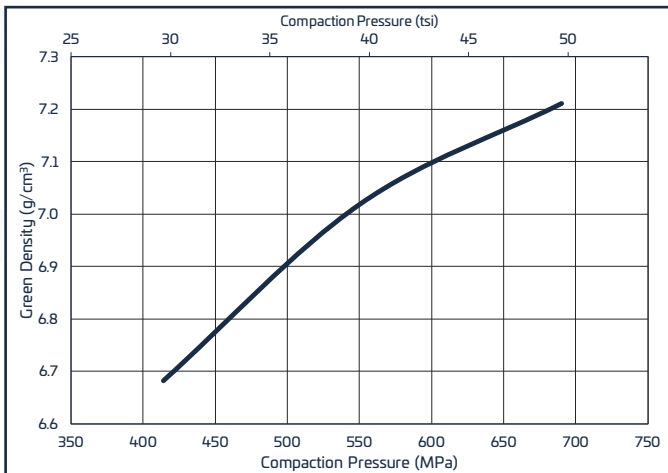
This is a water-atomized, prealloyed, low-alloy steel powder for high performance applications. The higher prealloyed 1.50 weight % molybdenum addition permits good compressibility as well as good response to heat treatment and sinter-hardening. This material conforms to MPIF standard 35 for FL-4905.

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| Nominal Chemistry (weight %) |           |            |
|------------------------------|-----------|------------|
| Iron                         | Manganese | Molybdenum |
| Bal.                         | 0.12      | 1.50       |

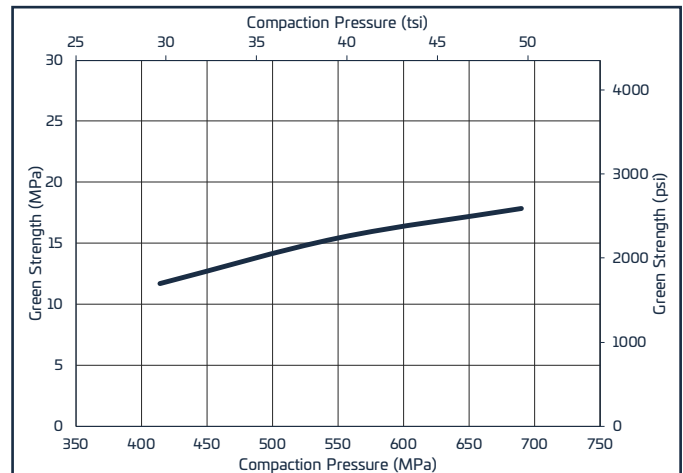
| Typical Particle Size (weight %) |       |            |             |        |
|----------------------------------|-------|------------|-------------|--------|
| Micrometers                      | +250  | -250/+150  | -150/+45    | -45    |
| U.S. Standard Mesh               | (+60) | (-60/+100) | (-100/+325) | (-325) |
|                                  | Trace | 10         | 70          | 20     |

## Green Density



(with 0.75 wt% EBS)

## Green Strength



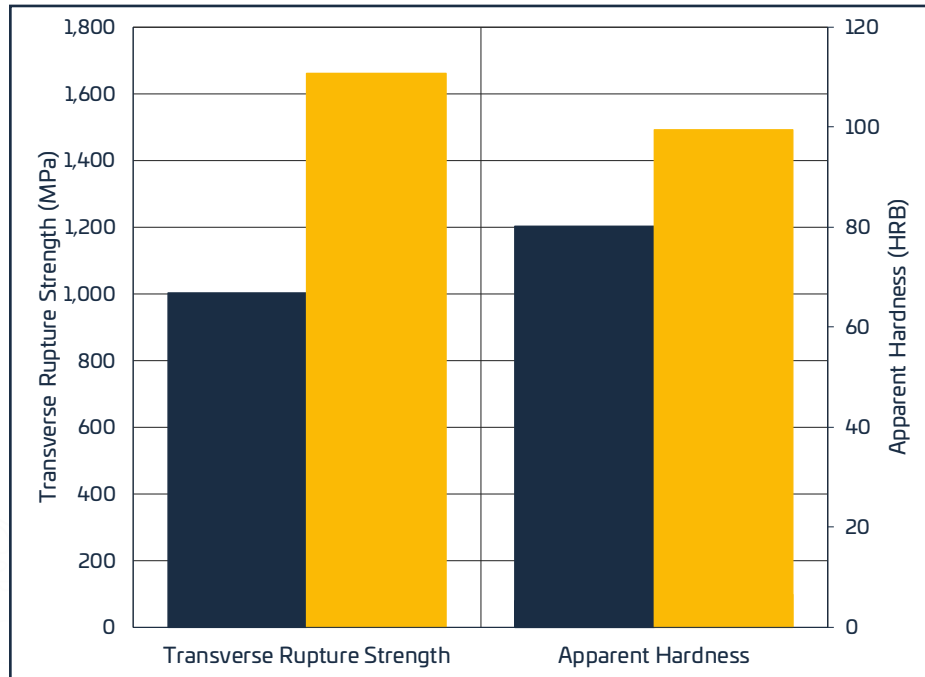
(with 0.75 wt% EBS)

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# ANCORSTEEL 150HP

## Transverse Rupture Strength Properties

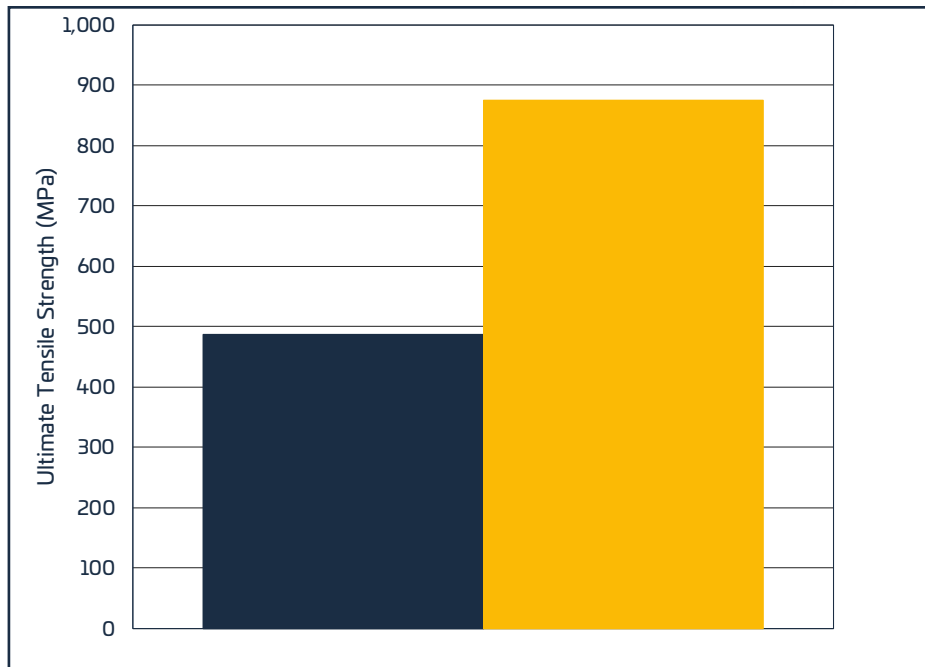


(with 0.6 wt% graphite + 0.75 wt% EBS)

■ 150HP

■ 150HP + 2% Nickel

## Tensile Properties



(with 0.6 wt% graphite + 0.75 wt% EBS)

All test specimens were compacted to  $7.0 \text{ g/cm}^3$  and sintered at  $1120 \text{ }^\circ\text{C}$  ( $2050 \text{ }^\circ\text{F}$ ) in  $90\text{N}_2$ - $10\text{H}_2$  atmosphere with accelerated cooling ( $\sim 1.7 \text{ }^\circ\text{C/s}$ ). Samples tempered at  $200 \text{ }^\circ\text{C}$  for one hour.

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